

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973908

Luminaire Tested: FLR2-22-25HE-L840-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25HE-L840-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

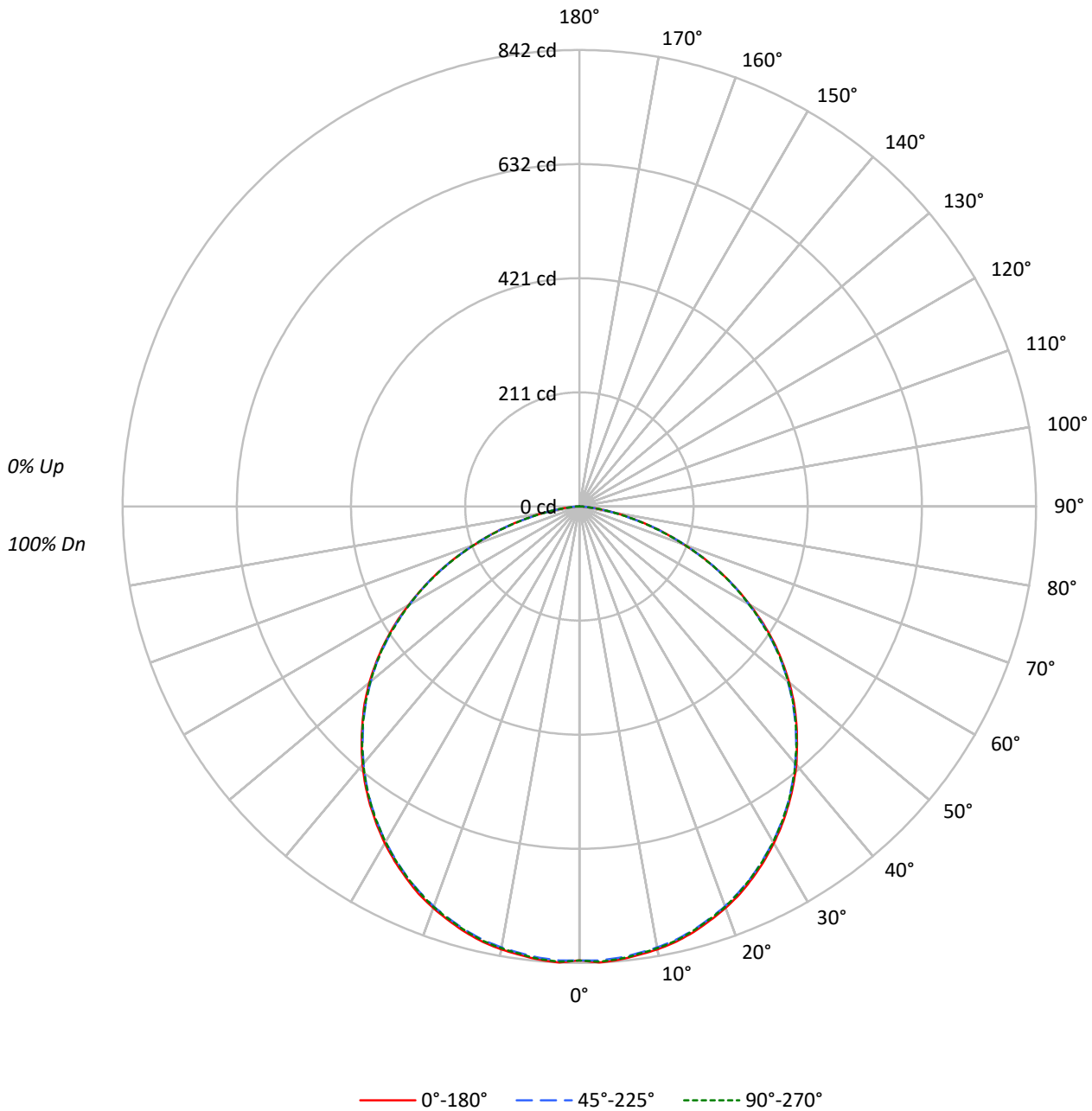
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2341.5 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2253	2253	2253
5°	2267	2258	2264
10°	2267	2257	2261
15°	2265	2255	2258
20°	2257	2248	2251
25°	2245	2236	2237
30°	2229	2219	2221
35°	2209	2200	2202
40°	2186	2175	2177
45°	2153	2143	2147
50°	2115	2100	2105
55°	2055	2038	2046
60°	1954	1946	1946
65°	1824	1821	1815
70°	1615	1624	1619
75°	1360	1350	1339
80°	978	962	953
85°	509	509	494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2153 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	3.4
10°-20°	228.0	9.7
20°-30°	346.5	14.8
30°-40°	418.8	17.9
40°-50°	434.7	18.6
50°-60°	388.6	16.6
60°-70°	282.6	12.1
70°-80°	139.0	5.9
80°-90°	24.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	653.8	27.9
0°-40°	1072.6	45.8
0°-60°	1895.9	81.0
0°-90°	2341.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	839	830	836	833	838	80
15°	813	804	809	807	810	229
25°	756	748	753	752	754	349
35°	672	668	670	670	670	421
45°	566	563	563	564	564	436
55°	438	436	434	436	436	390
65°	286	288	286	286	285	283
75°	131	132	130	130	129	139
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	837.3	837.3	837.3	837.3	837.3
2.5°	842.0	832.1	838.3	834.7	840.4
5°	839.4	829.6	835.8	832.7	838.3
7.5°	834.7	824.9	831.1	828.0	832.7
10°	829.6	819.2	825.9	822.8	827.5
12.5°	822.8	813.0	819.2	816.6	820.8
15°	813.0	803.7	809.4	807.3	810.4
17.5°	801.1	791.8	797.5	795.9	798.5
20°	788.2	779.4	785.1	783.5	786.1
22.5°	773.7	764.4	769.6	768.5	770.6
25°	756.1	747.8	753.0	751.5	753.5
27.5°	737.5	729.7	733.9	733.9	734.9
30°	717.3	710.1	714.2	714.2	714.7
32.5°	695.6	689.9	692.5	693.0	693.0
35°	672.3	667.7	669.7	670.3	670.3
37.5°	648.0	643.4	644.9	646.0	646.0
40°	622.2	618.0	619.1	620.1	619.6
42.5°	594.2	591.1	591.6	592.7	592.7
45°	565.8	563.2	563.2	564.2	564.2
47.5°	536.8	534.2	533.2	534.2	534.2
50°	505.3	502.7	501.7	502.7	502.7
52.5°	472.2	469.6	469.6	469.6	470.1
55°	438.0	435.5	434.4	435.5	436.0
57.5°	401.8	400.8	399.3	399.8	398.2
60°	363.1	363.1	361.5	362.5	361.5
62.5°	325.3	326.3	324.8	324.8	323.8
65°	286.5	287.5	286.0	286.0	285.0
67.5°	246.7	248.2	246.2	246.2	245.1
70°	205.3	208.4	206.4	206.9	205.8
72.5°	168.1	169.6	167.6	167.6	166.5
75°	130.8	131.9	129.8	130.3	128.8
77.5°	94.1	95.7	93.6	94.1	93.6
80°	63.1	63.6	62.1	62.6	61.5
82.5°	36.7	37.2	36.7	36.2	35.7
85°	16.5	17.1	16.5	16.5	16.0
87.5°	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)